41. A process according to claim 38 wherein the solution further comprises acetonitrile.

42. A process according to claim 38 wherein the solution further comprises urea.

43. A process according to claim 38 wherein the concentration of protein in the solution is from 0.1 mM to 10 mM.

44. A process according to claim 38 wherein the temperature of the solution is from 0°C to 100°C.

45. A process according to claim 38 wherein the solution is acidic.

46. A process according to claim 38 wherein the pH of the solution is from 0.5 to 6.5.

47. A process according to claim 38 wherein the solution is seeded with previously formed particles of protein.

48. A process according to claim 38 wherein the non-naturally occurring amyloid fibril prepared by said process comprises a pharmaceutically active compound.

49. A process according to claim 38 wherein the non-naturally occurring amyloid fibril prepared by said process comprises a metal.

50. A process according to claim 49 wherein the metal is selected from the group consisting of copper, silver and gold.

51. A process according to claim 38 wherein the non-naturally occurring amyloid fibril prepared by said process comprises one or more functional groups capable of binding one or more reactants.

52. A process according to claim 38, comprising the further step of using the non-naturally occurring amyloid fibril prepared by said process as a plastic, or in electronics, or in catalysis.

53. An amyloid fibril produced by the method of claim 38.--